

said spatial processor applies said weightings to results of said independent applications of said inverse of said time domain substantially orthogonalizing procedure; and wherein

said transmitter system transmits via said plurality of channel inputs responsive to results of applying said weightings.

*25* *16*  
248. (NEW) The transmitter system of claim *239* wherein said inverse of said time domain substantially orthogonalizing procedure belongs to one of a group consisting of an inverse Fast Fourier Transform and a Fast Fourier Transform.

*26* *95*  
249. (NEW) The transmitter system of claim *248* wherein said Fast Fourier Transform or said inverse Fast Fourier transform is followed by addition of a cyclic prefix.

*27* *16*  
250. (NEW) The transmitter system of claim *239* wherein said channel comprises a wireless channel and said plurality of channel inputs are associated with a corresponding plurality of transmitter antenna elements.

*28* *27*  
251. (NEW) The transmitter system of claim *250* wherein said plurality of transmitter antenna elements are co-located.

*29* *21*  
252. (NEW) The transmitter system of claim *250* wherein said plurality of transmitter antenna elements are at disparate locations.

*30* *16*  
253. (NEW) The transmitter system of claim *239* further comprising:

a bit loading system that allocates bit loading and power among said plurality of subchannels.--

#### REMARKS

Claims 1-223 have been cancelled and new claims 224-253 have been added in the present preliminary amendment. Accordingly, claims 224-253 are now pending.

An earlier filed preliminary amendment was filed with the present application. Further to the undersigned's telephone conversations with the Examiner, this earlier filed preliminary amendment was never entered and was apparently misplaced. A copy of the postcard verifying the PTO's receipt of that preliminary amendment is submitted herewith. The present preliminary amendment incorporates all of the changes of the earlier filed but misplaced amendment and makes some additional changes to the claims.

A petition to delete Michael Pollack and Vincent K. Jones as inventors was also previously filed but misplaced by the PTO. A new petition is submitted herewith.

### CONCLUSION

Consideration of the application and allowance of all claims are respectfully requested. If at any time the Examiner believes that a telephone conference would be helpful in expediting this matter, please contact the undersigned at (650) 903-3507.

Respectfully submitted,



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